

APPENDIX A: SYSTEM REQUIREMENTS

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APPENDIX A: SYSTEM REQUIREMENTS

A. Overview

1. *Will I need a new computer to support ICMS?*

If you have an older computer, use the System Requirements table in this appendix to determine if your system can run **ICMS**. If your system does not meet the minimum requirements, you will have to upgrade.

2. *Will I be able to use my ICMS computer for other functions?*

You can use your **ICMS** computer for all your computer needs. Just make sure that your system has enough memory and a large enough hard drive to meet all your needs. Hard drive storage space and random access memory are relatively inexpensive. Buying extra storage space and memory will pay off in the end. Your system will function more efficiently and allow you to expand without upgrading immediately.

3. *Do I need any other software to run ICMS?*

Yes. You must have Internet Explorer 6.0 or greater installed on your computer. Your computer does not have to be connected to the internet, but the web browser software must be installed. (**Note:** The installation for Internet Explorer 6.0 is included in the Prerequisites folder on the installation CD, if needed.) Also, make sure that your word processor is installed on the same computer. The system automatically accesses your word processor in order to print some of the Bureau forms.

If you wish to use SQL Server 2005 Standard Edition instead of the SQL Server Express Edition that is included with **ICMS**, you will have to download and install that separately. This is recommended if your unit has a large network with 6 or more concurrent users accessing **ICMS**.

The NPS has a service-wide license for SQL Server 2005 Standard Edition that you can download and install. For information on how to download this software, please contact the Regional IT Specialist. The download site requires a password for use.

B. System Requirements

1. *What are the minimum system requirements for running the ICMS program?*

The System Requirements table on the next page in this appendix lists the minimum and recommended system requirements. Check to make sure that your current system meets at least the minimum requirements. The minimum requirements are the lowest specifications that your system can meet for **ICMS** to run. It's fine if your system exceeds the recommended requirements.

System Requirements		
	Minimum	Recommended
Operating System		
Workstation	Windows 2000 Professional SP4	Windows XP Professional SP2
Server	Windows 2000 Server SP4, or better, long filename support required.	Windows 2003 Server SP1 or better.
Hardware		
Workstation	CPU: Pentium IV - compatible, 600 MHz RAM: 512 MB Monitor: 15 inch super VGA Video: 1024 x 768 x 32 bit	CPU: Pentium IV - compatible, 1 GHz or better RAM: 1 GB or better Monitor: 17 inch super VGA Video: 1024 x 768 x 32 bit
Server	CPU: Pentium IV or compatible RAM: 512 MB	CPU: Pentium IV or better RAM: 1 GB or better
Disk Storage		
Workstation	500 MB available (use server specs if a stand-alone installation)	1 GB available (use server specs if a stand-alone installation)
Server	2.75 GB available (plus 25 KB per record, depending on images and multimedia attachments; plus about 300 KB per image, depending on image format and resolution)	3.5 GB available (plus 25 KB per record, depending on images and multimedia attachments; plus about 300 KB per image, depending on image format and resolution)
Software		
.Net Framework	Microsoft .Net Framework 2.0 (included on installation CD)	Microsoft .Net Framework 2.0 (included on installation CD)
Web Browser	Internet Explorer 6.0 or greater	Internet Explorer 6.0 or greater (required for SQL Server 2005 installation)
SQL Server	SQL Server 2005 Express Edition (Included on the installation CD. For large network installations, we recommend SQL Server 2005 Standard Edition.)	SQL Server 2005 Standard Edition (Purchased separately by client. Recommended for large network installations.)
Network (for multi-user installations only)		
LAN	Speed: 10 Mbps File Sharing: Standard Windows file sharing (SMB)	Speed: 100 Mbps or greater File Sharing: Standard Windows file sharing (SMB)
WAN	Low-bandwidth environments (<10Mbps) require the use of a remote application delivery system such as Microsoft Terminal Services or Citrix MetaFrame.	Low-bandwidth environments (<10Mbps) require the use of a remote application delivery system such as Microsoft Terminal Services or Citrix MetaFrame.
Public Search or Re:discovery for Internet		
Any workstation running Public Search Or Re:discovery for Internet Server	Windows 2000/XP/2003/2008 machine on which to run ICMS and/or Re:discovery for Internet web services. Pentium IV (or compatible processor) with 1 GB of memory or better is recommended. .Net Framework 2.0 Microsoft Internet Information Services (IIS)	

2. *What is the maximum amount of disk storage space that my ICMS data will require?*

We can't tell you how large your system can become. There are many unlimited fields in **ICMS**. You can scan or cut and paste information or images from other programs into those large fields. In order to store all this additional information, you'll need plenty of hard drive space. The size you need depends on how much data you wish to store. There are no limits on the amount of information that you can store.

3. *Must I store my digital image files in the program on my hard drive?*

Yes. The program is configured to store both the image and thumbnail in the same location as the program. You cannot change this location.

There are several reasons that the images are now stored within the system instead of externally managed.

- The backup options now include the ability to backup images with the data. To perform this function, the images must be accessible and stored in a consistent location.
- The Web Catalog data transfer process needs reliable access to images.
- Image loss due to renaming or moving of folders will be prevented.

4. *How do I estimate how much hard drive disk space I need for ICMS?*

Use the formula in the box to estimate the minimum amount of disk space on your hard drive you'll need for **ICMS**.

$2.75 \text{ GB} + (25 \times \# \text{ of records})\text{KB} + (300 \times \# \text{ of images})\text{KB} = \text{estimated disk space needed for ICMS}$

Each catalog record uses an average of 25KB and each image uses an average of 300KB. So you must multiply the total number of catalog records you have in each directory by 25, then multiply the number of images you have attached by 300. Add these two figures to 2,750,000 KB (2.75 GB). The answer will be the minimum hard drive space that you need for **ICMS**.

Example:

Add your records from each directory together

CR PARK	35,245
NH PARK	7,123
AR PARK	<u>1,512</u> (all levels)
	43,880

Multiply that number by 25

43,880 X 25 = 1,097,000 KB (1,097 MB)

Multiply the number of images by 300.

325 images X 300 = 97,500 KB (97.5 MB)

Add these two numbers plus 2,750 MB (2.75 GB) needed for the program and lexicons

1,097 MB + 97.5 MB + 2,750 MB = 3944.5 MB (3.9 GB) disk space needed for your **ICMS**.

Note: Windows requires disk space for swap files. You should not allow your disk space to drop below 200 MB. If you have less than 200 MB available in the drive where **ICMS** resides, you should try to free up disk space, or upgrade your hard drive.

See Appendix B: Installation and Setup for instructions on configuring your system. Refer to Appendix G: Imaging and Multimedia for more information on imaging.